

What is claimed is:

[Claim 1] A method for reducing stand-off effects of a downhole tool, comprising:

disposing the downhole tool in a borehole, wherein the downhole tool comprises at least one moveable section disposed between an energy source and a receiver on the downhole tool; and
activating the at least one moveable section to reduce a thickness of at least one selected from a mud layer and a mudcake between the downhole tool and a wall of the borehole.

[Claim 2] The method of claim 1, wherein the downhole tool is one selected from a wireline tool, a logging-while-drilling tool, a measurement-while-drilling tool, and a measurement-while-tripping tool.

[Claim 3] The method of claim 1, wherein the downhole tool is an electromagnetic logging tool or a gamma-ray density tool.

[Claim 4] The method of claim 1, wherein the activating is by a mechanical mechanism or a hydraulic mechanism.

[Claim 5] The method of claim 1, wherein the at least one moveable section is attached to the downhole tool by a hinge.

[Claim 6] A downhole tool, comprising:

an energy source and a receiver disposed on the downhole tool;
at least one moveable section disposed between the energy source and the receiver; and
an activation mechanism for reducing a thickness of at least one selected from a mud layer and a mudcake between the downhole tool and a wall of a borehole.

[Claim 7] The downhole tool of claim 6, wherein the downhole tool is one selected from a wireline tool, a logging-while-drilling tool, a measurement-while-drilling tool, and a measurement-while-tripping tool.

[Claim 8] The downhole tool of claim 6, wherein the downhole tool is an electromagnetic logging tool or a gamma-ray density tool.

[Claim 9] The downhole tool of claim 6, wherein the activation mechanism is a mechanical mechanism or a hydraulic mechanism.

[Claim 10] The downhole tool of claim 6, wherein the at least one moveable section is attached to the downhole tool by a hinge.

[Claim 11] The downhole tool of claim 6, wherein the energy source and the receiver are disposed on a non-moveable part on the downhole tool.